

Title (en)

PROCESS AND APPARATUS FOR THE PREVENTION OF SOLIDS DEPOSITS IN A TUBULAR REACTOR

Publication

**EP 0029701 B1 19850911 (EN)**

Application

**EP 80304133 A 19801119**

Priority

- CA 340173 A 19791120
- US 9701179 A 19791123

Abstract (en)

[origin: US4271007A] Deposit of solids on the walls of tubular continuous flow reactors is avoided by a process and apparatus in which an oscillating motion is superimposed on the linear flow of reactants in order to maintain turbulent flow throughout.

IPC 1-7

**C23F 15/00**; B01J 19/28; C08F 2/18; C10G 9/16; F16L 55/04; F17D 1/20

IPC 8 full level

**B01J 19/00** (2006.01); **B01J 19/24** (2006.01); **B01J 19/28** (2006.01); **C08F 2/00** (2006.01); **C10G 9/16** (2006.01); **C23F 15/00** (2006.01); **F15D 1/00** (2006.01); **F16L 55/24** (2006.01); **F17D 1/20** (2006.01)

CPC (source: EP US)

**B01J 19/0026** (2013.01 - EP US); **B01J 19/2405** (2013.01 - EP US); **B01J 19/285** (2013.01 - EP US); **C08F 2/002** (2013.01 - EP US); **C10G 9/16** (2013.01 - EP US); **C23F 15/005** (2013.01 - EP US); **F15D 1/00** (2013.01 - EP US); **F16L 55/24** (2013.01 - EP US); **F17D 1/20** (2013.01 - EP US); **B01J 2219/00074** (2013.01 - EP US); **B01J 2219/00132** (2013.01 - EP US); **B01J 2219/00157** (2013.01 - EP US); **B01J 2219/00162** (2013.01 - EP US); **B01J 2219/00166** (2013.01 - EP US); **Y10S 585/953** (2013.01 - EP US); **Y10T 137/0391** (2015.04 - EP US)

Cited by

WO2020221435A1; WO2022106041A1; US11590470B2; WO2020012192A1; US11591423B2; WO2017220425A1; US10619422B2; US10738205B2

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

**US 4271007 A 19810602**; CA 1123578 A 19820518; EP 0029701 A1 19810603; EP 0029701 B1 19850911

DOCDB simple family (application)

**US 9701179 A 19791123**; CA 340173 A 19791120; EP 80304133 A 19801119